SEQUENCE LISTING

<110> TERNYNCK, THERESA

AVRAMEAS, ALEXANDRE

BUTTIN, GERARD

AVRAMEAS, STRAITIS

SARON, MARIE-FRANCOISE

BLONDEL, BRUNO

COUDERC, THERESA

- MICHELSON, SUSAN

ZIPETO, DONATO

<120> VECTORS DERIVED FROM ANTIBODIES FOR TRANSFERRING SUBSTANCES INTO CELLS

<130> 0660-0166-0XCONT

<140> 09/497,997

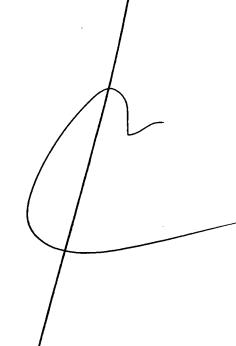<141> 2000-02-04

<150> PCT/FR98/01740

<151> 1998-08-04

<160> 35

<170> PatentIn version 3.0

<210> 1

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<213> Artificial Sequence

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<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 1

Thr Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr Trp Gly Gln Gly
1   5   10   15

Thr

<210> 2

<211> 17

<212> PRT

<213> Artificial Sequence

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<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 2

Thr Arg Gln Lys Tyr Gly Lys Arg Gly Met Asp Tyr Trp Gly Gln Gly
1   5   10   15

Thr

<210> 3

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

-2-

<400> 3

Thr Arg Gln Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr Trp Gly Gln
1   5   10   15

Gly Thr

<210> 4

<211> 22

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic peptide

<400> 4

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1   5   10   15

Val Lys Gly Arg Phe Thr
            20

<210> 5

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: peptide

<400> 5

Val Ala Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr Glu Asp Ser
1   5   10   15

Ile Lys Gly Arg Phe
            20

<210>   6

<211>   23

<212>   PRT

<213>   Artificial Sequence

<220>

<221>   misc_feature

<223>   Description of Artificial Sequence: peptide

<400>   6

Val Ala Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser
1   5   10   15

Val Lys Gly Arg Phe Thr Ile
            20

<210>   7

<211>   30

<212>   PRT

<213>   Artificial Sequence

<220>

<221>   misc_feature

<223>   Description of Artificial Sequence: synthetic peptide

<400>   7

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1   5   10   15

Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala
            20   25   30

<210>   8

<211>   12

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 8

Ala Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr
1   5   10

<210> 9

<211> 31

<212> PRT

<213> Artificial Sequence

β1

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 9

Cys Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp
1   5   10   15

Thr Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala
            20   25   30

<210> 10

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 10

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1   5   10   15

Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala
            20   25   30

<210> 11

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic DNA

<400> 11
gttctgacta gtgggcactc tgggct   26

<210> 12

<211> 26

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic DNA

<400> 12
gaggttcagc tcgagcagtc tggggc   26

<210> 13

<211> 26

-6-

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic DNA

<400> 13
gaggtgaagc tcgaggaatc tggagg   26

<210> 14

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic DNA

<400> 14
gaagtgcagc tcgaggagtc tgggg   25

<210> 15

<211> 26

<212> DNA

<213> Artificial/Unknown

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic DNA

<400> 15

gaggttcagc tcgagcagtc tggagc   26

<210> 16

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 16

Thr Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr Trp Gly Gln Gly
1   5   10   15

Thr

<210> 17

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 17

Thr Arg Gln Lys Tyr Asn Lys Lys Arg Gly Met Asp Tyr Trp Gly Gln
1   5   10   15

Gly Thr

<210> 18

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 18

Thr Arg Gly Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr Trp Gly Gln
1   5   10   15

Gly Thr

<210> 19

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 19

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1   5   10   15

Val Lys Gly Arg Phe
                20

<210> 20

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 20

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1   5   10   15
Val Lys Gly Arg Phe Thr
            20

<210> 21

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 21

Val Ala Tyr Ile Ser Arg Gly Gly Ile Phe Tyr Tyr Gln Asp Ser Ile
1   5   10   15
Lys Gly Arg Phe
            20

<210> 22

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 22

Val Ala Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser
1   5   10   15

Val Lys Gly Arg Phe Thr Ile
            20

<210>   23

<211>   33

<212>   PRT

<213>   Artificial Sequence

<220>

<221>   misc_feature

<223>   Description of Artificial Sequence: synthetic peptide

<400>   23

Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr
1   5   10   15

Val Lys Gly Arg Phe Thr Arg Gln Lys Tyr Asn Lys Arg Ala Val Ala
            20   25   30

Tyr

<210>   24

<211>   28

<212>   PRT

<213>   Artificial Sequence

<220>

<221>   misc_feature

<223>   Description of Artificial Sequence: synthetic peptide

<400>   24

Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Thr Val Lys
1   5   10   15

Arg Thr Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr

<210>   25

<211>   105

<212>   PRT

<213>   Artificial Sequence

<220>

<221>   misc_feature

<223>   Description of Artificial Sequence: peptide

<400>   25

Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
1   5   10   15

Ser Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg Leu Glu
            20   25   30

Trp Val Ala Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr Gln Asp
        35   40   45

Ser Ile Lys Gly Arg Phe Thr Ile Ala Arg Asp Asn Ala Lys Asn Thr
    50   55   60

Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala Met Tyr
65   70   75   80

Tyr Cys Thr Arg Glu Lys Tyr Gly Lys Arg Gly Met Asp Tyr Trp Gly
            85   90   95

Gln Gly Thr Ser Val Thr Val Ser Ser
            100   105

<210>   26

<211>   107

<212>   PRT

<213>   Artificial Sequence

<220>

<221>   misc_feature

<223>   Description of Artificial Sequence: synthetic peptide

-12-

<400> 26

Glu Thr Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Thr
1   5   10   15

Phe Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Thr Pro Ala Lys Arg
            20   25   30

Leu Glu Trp Val Ala Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr
        35   40   45

Ser Asp Thr Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys
    50   55   60

Asn Thr Leu Ser Leu Gln Met Ser Ser Leu Arg Ser Glu Asp Thr Ala
65   70   75   80

Met Tyr Tyr Cys Ala Arg Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr
            85   90   95

Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser
            100   105

<210>   27

<211>   110

<212>   PRT

<213>   Artificial Sequence

β1

<220>

<221>   misc_feature

<223>   Description of Artificial Sequence: synthetic peptide

<400> 27

Ala Leu Val Lys Pro Gly Gly Ser Leu Lys Leu Ser Cys Ala Ala Ser
1   5   10   15

Gly Phe Thr Phe Ser Asn Tyr Gly Met Ser Trp Val Arg Gln Thr Pro
            20   25   30

Glu Lys Arg Leu Glu Trp Val Ala Ala Ile Ser Arg Gly Gly Gly Tyr
        35   40   45

Ser Tyr Tyr Leu Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp
    50   55   60

Asn Ala Arg Asn Thr Leu Tyr Leu Gln Met Ser Ser Leu Arg Ser Glu
65   70   75   80

-13-

```
Glu Thr Ala Met Tyr Tyr Cys Ala Arg Thr Ala Arg Ala Thr Trp Asp
                85                  90                  95

Trp Phe Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
            100                 105             110
```

<210> 28

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 28

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Glu Leu Val Arg Gly Ala Ser Val Lys Val Ser Cys Thr Thr Ser Gly
1               5                   10                  15

Phe Thr Asn Ile Lys Asp Asp Tyr Ile His Trp Val Arg Gln Arg Pro
            20                  25                  30

Glu Gln Gly Leu Glu Trp Ile Gly Arg Ile Asp Pro Ala Asn Gly Lys
        35                  40                  45

Thr Lys Tyr Ala Pro Lys Phe Gln Asp Lys Ala Thr Ile Thr Ala Asp
    50                  55                  60

Thr Ser Ser Asn Thr Ala Tyr Leu Gln Leu Ser Ser Leu Thr Ser Glu
65                  70                  75                  80

Asp Thr Ala Val Tyr Tyr Cys Ala Arg Gly Leu Thr Arg Trp Tyr Phe
            85                  90                  95

Asp Val Trp Gly Ala Gly Thr Thr Val Thr Leu Ser Ala
            100                 105
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<210> 29

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 29

Gly Leu Val Lys Pro Gly Ala Ser Val Lys Val Ser Cys Asn Val Ser
1   5   10   15

Gly Tyr Ser Phe Thr Gly Tyr Phe Met Asn Trp Val Arg Gln Ser His
                20   25   30

Gly Lys Ser Leu Glu Trp Val Gly Arg Ile Asn Pro Leu Asn Gly Asp
        35   40   45

Thr Phe Tyr Asn Gln Lys Phe Lys Gly Lys Ala Thr Leu Thr Val Asp
    50   55   60

Lys Ser Ser Thr Leu Ala His Met Glu Leu Arg Leu Arg Lys Ser Glu
65   70   75   80

Asn Ser Ala Val Tyr Tyr Cys Ala Arg Gly Leu Thr Arg Trp Tyr Phe
                85   90   95

Met Val Trp Gly Ala Gly Thr Thr Val Thr Leu Ser Ala
            100   105

<210> 30

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 30

Tyr Ile Ser Arg Gly Gly Gly Ile Phe Tyr Tyr Gln Asp Ser Ile Lys
1   5   10   15

Gly

<210> 31

<211> 17

-15-

<212> PRT

<213> Artificial Sequence

<220>

<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 31

```
Tyr Ile Ser Arg Gly Gly Val Ser Thr Tyr Tyr Ser Asp Thr Val Lys
1               5                   10                  15
Gly
```

<210> 32

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

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<223> Description of Artificial Sequence: synthetic peptide

<400> 32

```
Ala Ile Ser Arg Gly Gly Gly Tyr Ser Tyr Tyr Leu Asp Ser Val Lys
1               5                   10                  15
Gly
```

<210> 33

<211> 10

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: synthetic peptide

<400> 33

Glu Lys Tyr Gly Lys Arg Gly Met Asp Tyr
1   5   10

<210> 34

<211> 10

<212> PRT

<213> Artificial Sequence

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<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

B cond'd -

<400> 34

Gln Lys Tyr Asn Lys Arg Ala Met Asp Tyr
1   5   10

<210> 35

<211> 11

<212> PRT

<213> Artificial Sequence

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<221> misc_feature

<223> Description of Artificial Sequence: synthetic peptide

<400> 35

Thr Ala Arg Ala Thr Trp Asp Trp Phe Ala Tyr
1   5   10